

Do African states require a Scientific Revolution?:  
Education and Healthcare in the West as a route to making  
Poverty History

By

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## Introduction

### Does Africa need a Scientific Revolution?

The fact that I have been searching for a way to promote the manifestation of my excitement at the advancement and worth in academia and all things related to the transmission of accumulated wealth in the form of knowledge, rehabilitation and its discontents has left me with a false understanding of society and reality. Empires were constructed and destroyed based on educated principles and ideals of actual ideology and principled learning, yet in the modern age people are unawares of the role of the United Kingdom within the United Nations, let alone how to read and write as adults, which is where social and cultural bias emanate from, causing skewed political voting. In the time it took for one individual to derive sensation and emotion from the musings of an unknowable idea or ideology (in this instance I refer to the brunt of most of my writing which centers around creating poverty alleviation through Global Disarmament through a reduction in trade in Weapons of Mass Destruction and universal deregulation and ultimately destruction of all weaponry. Namely with a view to alleviating the problems in contemporary society with websites such as Adultwork.com or the idea of consensual adults working in "Sauna's" or male and female Escorts and sex-workers defining their role in tackling the world's preoccupation with rape culture and the perpetuation of pornography). The concept of idea's, ideology, even concepts such as the psyche are not new conceptions, yet the very nature of treatment of metaphysical doubts alluded to the foundation of perceptions that are now being held as social norms.

'Rights' and 'Duties' are constitutional terms that refer to the very liberties and freedoms we live for and by. Yet despite the question(s) en-masse of electable enforability within one territorial province or state over another requires a close and constant internal view of the judiciary of the same state(s) and province(s), where the judiciary as public servants remain unelected. The failure of idealism in a realised world is the failure of not one but every institutional infrastructure, hence British citizens join a war in Afghanistan, Syria, Iraq or even on the streets of Britain/Scotland in the name of a faith that declares itself free of violent and intollerant attitudes. Society, and religion have evolved over time, but the symptoms of the rehabilitation of a nation-state and (or) it's discontents is the beginning and end of this treatise of which I will continue in the guise of a latin phrase.

### Respite Finem, In Principio..

In the beginning we are immediately overcome with sensation; aware of it from the first second as cognition is felt unawares of the tremendous weight of thought. A baby expresses any number of emotions in its first seconds as the lifeblood of our humble stratosphere is sought amidst a cascade of light, sound and motion. The

subconscious mind is the first to kickstart a series of argumentative motions until the first breath becomes every breath we each take daily. What follows from these operations is a pleasure to awaiting parent and patient doctors and nurses. Ultimately the rumbling murmurs of life invaluable are a great debt to the environment; at times harsh and unforgiving, whilst at other times more than equal to if not more than worth the benevolent and all becoming reverence and awe it deserves, from scientist observer and layman alike.

The 'axiom', perceptual precept or conceptual train of thought both at one and the same time followed by the conscious and subconscious mind is the jewel in the metaphorical crown of the brain at which we find the first vestiges of an idea, a thought and motion rolled into action. The form with which the very same action is undertaken is a rocky path that culminates in the beginning of a gasping pant for breath and the eternal question of instinctual survival. All this for life, the hegemony of a conceptual precept or inkling of a nation becomes manifest in the motor skills of an individual. From the Central Nervous System to the synapses of the brain, a machine more powerful than human ingenuity at present fully and unequivocally understands en-masse. Thus the essence of control is captured within the self whereby the connection between body and mind, soul and environment alike become the beckoning beacon as communication, long mused over by the ancients is poured, in the form of love, into a seemingly empty vessel with a view to overcoming ignorance. Civilisation has long since moved on from defining what an idea is or should be, in favour of mixing and blending ideology and form, substance and immediate perception to create new ideas original. These new ideas contain the images of the brain of which they are disseminated and eventually understood as the mind begins to conform to a societal pressure to consume information at an ever more rapid rate.

The objective/subjective matrix exists purely in the objects of our ideological fruits which can and usually are altered to fit in line with our shared morals and beliefs such that they are indistinguishable from the indiscriminateness of our representative ideas. One can speak of an idea and of ideology in the same interchangeable sense, but without strong and moral leadership, direction and command of a breadth of knowledge in order to put an idea into practice, it remains as such. Objectively, wielding an unseen or rather unforeseen idea(s) which can be fraught with the same dangers as wielding an unlicensed bi-product of centuries, if not millenia of technological and societal progression in the form of constant and unending armed conflict, struggle and revolution. In opposition to warfare, a solution of ideals is the only route to peace through conscious, reasoned and calculated theorem applied. To exist in the objects of our desires, thoughts and actions, we must fashion and mould the idea such that it is a good and not the evil inherent in mankind. To identify with an image of the mind incompatible with the objective/subjective matrix is near impossible, where the mind is inspired by the strong moral conceptions and perceptions of ideas and ideologies that fit the object and (or) subjective will and imagination.

Formal institutions, the dominant objects of our ideas and the route to institutional learning can also be subject to the very same ideas we allow into

existence. Being the object of institutional learning as an example of the object of our ideas allows us to perceive the very same ideas through specific lenses such that where there are issues these can be resolved timeously and without deterance.

Formal declaration of substance within a forum that is receptive allows for the dissemination of ideas such that they can be shared and understood. Substance, in this very real sense being attributable characteristics of a property, nature or quality of item such that it can be seen to be evident and (or) inalienable to the person; in the same way rights are seen to be evident and inalienable from the person as stated by Martin Luther King so many years ago. An example of the same might include the reflection of light, illumination dispenses, as the object of investigation, with the shadows and anything that lacks illumination. Therefore, the substance is the depth of field or intensity of illumination existing in a formal and very real sense, though intangible. Therefore imagine the properties and products of light without a source of emission, a perplexing thought that leads to a mute point; i.e. in the natural world, it is increasingly difficult to find the products of illumination, the very substance of it, without a source of emission.

Human cognition requires its substance, the bi-products of thought for sound and reasoned "thought", the attribute with which the mind manifests itself and is to be understood by other well-reasoned minds. The corporeal 'body', 'mind' and 'soul' each of which are said to belong to all of humanity, ever present in one form or another throughout the lives of the general populous are distinct and have differing roles within the waking corporeal world with regards to how they interact and perceive objects, cause sensations and equally feel, show and receive emotions.

To clearly perceive and understand for instance, the words 'equality and rights', inalienable and indivisible from the person where, if one knows and understands truth, it becomes their truth i.e. where no falsehood or inconsistency resides within an ideal as reasoned by the conceptual hypotheses and ratified by a strong moral countenance, the inalienable and indivisible alike become the perceptual truth or goal(s) to be attained.

The infinitesimal universality and degree of diversification of mankind is an objective reality so divergent and at times indistinguishable from previous laissez faire attitudes in the past mirrored in the modern age as, noted in the tomes and within rich libraries and private collections alike. Knowledge of all things, sensible and insensible implanted within the psyche as cues and received or perceived and reasoned within synaptic responses to a finite substance of judged and perceived notions of discursive reasoning. Within reason for axioms, presupposition and theorem that challenge the corporeal inequalities, merely on account of thought. Many accidents within several degrees of reality of being are the sole impetus for the formulation of questions of corporeal reality, as viewed from an objective exercise on the questions plaguing mankind, of nothingness and all things. This very same reality from the core of the Earth's mantle to the outermost reaches of the universe and beyond can be clearly perceived to be necessarily in existence and not in existence in the mind of an individual at any one time where the mind wonders.

Merely an abstract distraction of an idea, an axiom, precept or presupposition, theorem or divergent trend can and usually does require a conclusion whether

founded on reasoned logic or knowledge depending entirely on the honed skillset and an utterly irrational sense or account of any discursive reading on objective reality, through acceptance of an axioms lexicon.

On account of the nature preceding an account of hypotheses received from the senses, which can either be true or falsely weighed dilligently upon an order or cause, principle of reality and existence, objective '*a priori*' of the fact that regardless of what we do to ourselves and our host planet, the remainder of the mass of the universe will remain in existence intact where we were to cease to be. It will be no less self evident, the examples of clear and distinct perception within discursive, astute or obscure, uncertain or commandingly clear within the nothingness of life in comparison to the cosmos spinning in unison.

To be really distinct, something in the form of the substance and form of a formal train of thought must encompass the habit of self-perception contained in the nature or concept of something. Self evidence in the grandeur of possibility in the reality or perceived reality of an account of hypotheses, merely to distraction and discursive reasoning inherent and unnecessarily syllogistically synchronous, divergent images of perfection, whatever the idea of perceived reality, there is still one awesome truth that outweighs knowledge of all things as viewed by even Deities past and present, as viewed by even God himself. That of time.

However, the first defeat of a non-existent thing where discursive reasoning, logic and contemplation of the nature of the same holds a substance that for some is the normality of routine where only an axiom holds true of a depicted judgement of the existence of time where time is not a human conception designed to describe passage of a period identified through standardisation over the ages; until the conception and perception of an idea such as the unit of time expressed in the word 'second' or 'minute', 'hour', 'day', 'month' or 'year'.

The senses perceive the certainty of chronologous interaction and extension within our given environment such that the astuteness to know anything corporeal acquired for the habit of perceiving the sameness of one item relative to the next item can note faith in the senses. It is irrational to call into doubt a thing, in its very own existence except where that alone is necessary in the interests of self preservation observed through a more precise and highly focused substance.

The idea of an accident preserves a highly complex construction of a term that is more objective in reality as with the idea of an infinite particle or a piece of clothing made solely of the constituents of water; namely the particles and elements that make up water. Contained in the concept of a limited thing, perfection, which can be found lacking due to the limitation of a thing has been replaced with consumption of limited products in heavily stagnated markets.

Distinction of two relative items, objects if you will, requires knowledge of both items such that you only truly need one objects generalised attributes to allow for the provision or negation of truth or falsehood. Perception of all the preflections and imperfections of generalised attribution allows for the decision making system to object to objective reality of one object over another such that either in the presence of someone else I might affirm or negate perception of a demonstrated object. Whilst a number of attributes can be attributed, surmised from visual inspection, (note on

similarity and generalised objectivity such that an objects characteristic likeness might be recognised to be a book or not a book). Interpretation on later inspection would find that 'Hegemony or Survival' is the title with an attributable author.

The power to preserve the perfection I lack is muted only by (The Problem in Bullet Point notes as a side note to what makes any nation Great

- Homelessness rates amongst children
- Ebola/Hiv/Aids/Cancer
- Agriculture
- Poaching
- Policing and Protection of the people and a state
- Peaceful social and moral upheaval vs psychological makeup of a country
- History and Educating the general populous
- Transport infrastructure (the legacy of Colonialism)
- Economy and Crime
- Corruption vs. an International Political School of thought focusing on Anti-corruption within stable economies
- Education within an ageing population vs. lifelong learning within an infrastructure geared towards erradicating poverty and prostitution
- National and international agencies (and the law)
- Mining and manufacture
- Conservation (see poaching)
- Child and adult literacy
- Art and culture (textiles and manufacture or the lack thereof)
- Development and trade vs. aid within free markets
- The environment (vs. long haul transportation and the market for consumer public transportation)
- Secular religion and the policing of a state without taxation of the entire populous (Universal declaration of Human Rights and the ECHR vs. an African equivalent)
- Welfare on a social level and rights vs. the ability to tax a country with hyper inflation
- Monetisation of Education and Healthcare within a highly stratified class based infrastructure (collapsed to two tiers)
- Agriculture
- Housing and the construction industry
- Construction and public investment in apprenticeships
- The pace of change in rapidly progressive and 'advanced' societies vs African sovereignty within democratic markets and constitutional rights
- The media and the projection and promotion of radical ideals such as
  - a) the citizen
  - b) educational stimuli
  - c) infrastructure and business
  - d) change management
  - e) how to give something for nothing (deracialised and objective classical training in the arts vs elitist educational infrastructures)

- Police, Fire and Ambulatory services (training, recruiting and paying for new products, services and techniques in preventing harm to the public overseas)
- Research and development into agricultural techniques
- Continuous learning (promotion of an ideal)
- Consistent and clear leadership, drive and direction
- Mental ill health (tackling the stigma by attacking social and cultural bias head on worldwide)
- Female rights, equality and universal suffrage
- Prevalence of substance and alcohol misuse in minors in impoverished and affluent areas and the distribution of the same
- Contraception and questions of religion in monotheistic culture(s)
- Land use and land management
- Human resources and personnel allocation
- Evacuation and emergency infrastructure with regards to environmental catastrophe
- Contingency planning and opportunity costing within central banks, the IMF and World Bank as well as the UN System of Organs and Vessels
- Nutrition and Dental Health as well as general Healthcare and well-being (divergent choices based on merit and maturity as well as aptitude via a cost based apprenticeship system incorporating an international system of Healthcare communities – World Health Organisation and public knowledge)
- Redefining the class based economy and attempting to alter a system based approach to education with limited capital, social inclusion vs. exclusion of the entire populous and minority diction) the perception of all perfections missing from a generalised point of view. To assume or attribute superiority in comparison to your own apparent superiority or apparent inferiority is a form of existence merely perpetuating the division in which all things cease to be equal. Despite the falsehood of such a statement as a proposition with no presupposition preceded, had I the power to preserve the very essence of my core being where I cease to exist, I find that I am capable of perceiving or conceiving the opposite notion. Namely, 'all things are created equal'.

The nature of such statements, can be affirmed or negated through observation and observational parallax or perceptual synchronicity. As solitary individuals we perceive substance in so far as a yellow Mustang will, if viewed by a thousand men, women and children in unison, in one instant, from multiple angles, still be a yellow Mustang.

Synchronous Relative Geometrical, Metaphysical and Discursive Reasons for Reasoning (as a method of analysis) such as (in this instance I refer to a unified political school outside of current trends in academic

principles, all leaders learn to work together as opposed to spending public funds on death tolls - think of the mother or father who works as a prostitute to feed his or her kids and then think of the cost of a gun, a tank, a bomb, a war and finally a new ozone layer) as the above postulates, hypotheses and axioms are a means with which to extend the substance of the same forms of subsistence to existential temporo-metaphysical perception of the perfection and (or) the lack of perfection within society. For example, my own journey and sensation encompasses the sound, sight, smell and taste of fountain pen, ink, paper and book. I know this to be true through countless years of experiential distinction in the form of sensory perception and experiential learning.

## Education and Healthcare in the West as a route to making Poverty History

The preceding suppositions, and so forth, provided that the criterion with which the distinction of 'thought', 'mind' and idea are satisfied through example inherently within previous external and internal objects define the idea that a change is a progressive thing. Though in this instance change assumes higher reasoning, knowledge and intelligence, empathy and supportive guidance as an institutional mechanism as opposed to solely a guide for some and not for others. Equally, the reasoning required to philosophise an observed mental construction applied in the real and observable world, that is the waking and conscious world is how we each require a form of logic and reasoning such that speculation of an object is self-evident.

There is no declaration more profound than where an item or object exists with its own series of attributable substance defining its objective nature through the sum of its attributable substance. That is to say, where the attributes and properties of an object are known, the object can be assumed to be through acceptance of its attributes. An example might include a computer or mobile phone. Uncertainty as to whether an object is as questioned above, is in fact a computer or mobile phone, then begs the question, does the object contain the general properties of similar objects (such as central processor, transistors and capacitors, battery and screen or keyboard).

Whilst perception of many objects of an eminently similar nature may be preserved, through the title 'computer' or 'phone' a differing precept of a working computer versus the idea of a phone is required. Equally a phone or computer that is faulty still remains a computer or phone. It is a result ultimately of the minds perception through use of the body and ultimately the senses inately built into the human body that allow us to acknowledge the truth of an object such that we can state what an object is, through visual or other inspection.

As such a question on the existence of Good and Evil would require that we each perceive the 'good' and 'evil' within society with respect to the attitudes, words and deeds we undertake on a day to day basis along with the words, thoughts and actions of others. Where others, that is people outside of the self know intimately and perceive a 'good' or 'evil' moral action, word or deed, an emotional attachment to a particular course of action then followed with regards to the perception of the same. Be it a positive or proactive course of action or be it onerous or lacking compassion and empathy.

Most people are able to distinguish the difference between moral and upright behaviour and where this is not the case, personal circumstance and knowledge of strong positive morals and deterrants to interacting in an anti-social manner. The idea or knowledge of a good, in the strictest sense, separating all other things from an object, it would be said to lack any form of the obvious and distinctly opposite of an

object. As such, promotion of an absolute opposite, say for instance a person perceived as culturally distinct where it is still apparent that they are physically similar, sharing many if not all the cultural attributes of, as well as physical attributes of their compatriots such that there is difficulty in making a clear and unequivocal distinction.

The foundation of ego-less lay writing awaiting a sense of hope is neither here nor there. Over the course of one lifetime, I have witnessed the hopes of a nation through the words and deeds of its people. Revolutions and the miseries of crises, equally have been shared and travailed. Yet despite the synthesis of history and the day to day reality of survival amidst the greenery and scenery of the concrete jungle and the countryside alike, nothing has inspired me more than the kindly sparkle of the reflection of sunlight in a persons eyes.

They say that the eyes are the windows to the soul and a persons journey equally has been described as beginning with a single footstep. As such, I wanted to retell the culture of ecstatic elation and falling depression that is my own, for anyone who will whimsically listen. All this in the hopes that I might learn to live well such that I can approve of my own actions in the eyes of others and in my own reflection.

## Do African states require a Scientific Revolution?: Education and Healthcare in the West as a route to making Poverty History

“The sole test of the validity of any idea is experiment... Thus we have a new view of electromagnetic interaction. We have a new kind of particle to add to the electron, the proton, and the neutron. That new particle is called a photon. The new view of the interaction of electrons and photons that is electromagnetic theory, but with everything quantum-mechanically correct is called quantum electrodynamics.”

Richard Feynman, The Feynman Lectures Volume I

Frequency in oscillations per second	Name	Rough Behaviour
10(2)	Electrical disturbance	Field
<b>5x10(5) – 10(6)</b>	<b>Radio Broadcast</b>	
<b>10(8)</b>	<b>Fm - Television</b>	
<b>10(10)</b>	<b>Radar</b>	<b>Waves</b>
<b>5x10(14)-10(15)</b>	<b>Light</b>	
10(18)	X-rays	
10(21)	Gamma-rays, nuclear	Particle
10(24)	Gamma-rays, artificial	
10(27)	Gamma-rays, in cosmic rays	

## Scientific International Standard Units of Measure

Factor	Prefix	Symbol
10(24)	Yotta	Y
10(21)	Zetta	Z
10(18)	Exa	E
10(15)	Peta	P
10(12)	Tera	T
10(9)	Giga	G
10(6)	Mega	M
10(3)	Kilo	k
10(2)	Hecto	h
10(1)	Deka	Da
10(-1)	Deci	d
10(-2)	Centi	c
10(-3)	Milli	m
10(-6)	Micro	$\mu$
10(-9)	Nano	n
10(-12)	Pico	p
10(-15)	Femto	f
10(-18)	Atto	a
10(-21)	Zepto	z
10(-24)	Yocta	y

## Some Physical Constants

(note, numbers in brackets should be taken to mean to the power of e.g 10(2) is 10(to the power of two))

Speed of Light –  $c$  –  $2.998 \times 10^8$  m/s

Gravitational Constant –  $G$  –  $6.673 \times 10^{-11}$  N.m<sup>2</sup>/kg<sup>2</sup>

Avogadro Constant –  $N_A$  –  $6.022 \times 10^{23}$  mol<sup>-1</sup>

Universal Gas Constant –  $R$  – 8.314 J/mol.K

Mass-Energy Relation -  $c^2$  –  $8.988 \times 10^{16}$  J/kg  
931.49 MeV/ $\mu$

Permittivity Constant -  $\epsilon_0$  –  $8.854 \times 10^{-12}$  F/m

Permeability Constant –  $\mu_0$  –  $1.257 \times 10^{-6}$  H/m

Planck Constant -  $h$  -  $6.626 \times 10^{-34}$  J.s

$4.136 \times 10^{-15}$  eV.s

Boltzmann Constant –  $k$  –  $1.381 \times 10^{-23}$  J/K

$8.617 \times 10^{-5}$  eV/K

Elementary Charge –  $e$  –  $1.602 \times 10^{-19}$  C

Electron Mass –  $m_e$  –  $9.109 \times 10^{-31}$  kg

Proton Mass –  $m_p$  –  $1.673 \times 10^{-27}$  kg

Neutron Mass –  $m_n$  –  $1.675 \times 10^{-27}$  kg

Deuteron Mass –  $m_d$  –  $3.344 \times 10^{-27}$  kg

Bohr Radius –  $a$  –  $5.292 \times 10^{-11}$  m

Bohr magneton –  $\mu_B$  –  $9.274 \times 10^{-24}$  J/T

$5.788 \times 10^{-5}$  eV/T

Rydberg Constant –  $R$  –  $1.097373 \times 10^7$  m<sup>-1</sup>

## The Greek Alphabet

Alpha	A	□
Beta	B	□
Gamma	Γ	□
Delta	Δ	□
Epsilon	E	□
Zeta	Z	□
Eta	H	□
Theta	Θ	□
Iota	I	□
Kappa	K	□
Lambda	Λ	□
Mu	M	□
Nu	N	□
Xi	Ξ	□
Omicron	O	□
Pi	Π	□
Rho	P	□
Sigma	Σ	□
Tau	T	□
Upsilon	Υ	□
Phi	Φ	□, □
Chi	X	□
Psi	Ψ	□
Omega	Ω	□

## Types of Chemical Bonds

Covalent Bond: Pairs of electrons are shared by two atoms

Ionic Bond: Electrons from one atom are removed and attached to another atom, resulting in positive and negative ions that attract each other

Van der Waals Bond: Electrostatic forces attract molecules in a liquid

Metallic bonds: Positive ions are islands in a sea of electrons



## Bosons

The physicist Satyendranath Bose is the namesake of the particles that worked on the ideas that founded the Boson. Bosons, such as Photons (light particles) are the particles that carry the other fundamental force, with particles that have symmetrical nuclei (not all but some) acting like Bosons, including Helium (contains two protons and neutrons, of which these are the fundamental building blocks of atomic particles along with electrons which when combined in a steady stream are what is referred to as electricity or electronic discharge). Bosons can act in a physical phenomenon that is known as quantum concert in which thousands of Bosons will contain the same quantum properties, a principle that is central to odd microscopic quantum behaviour (e.g super fluids – the motion of a liquid with no viscosity or thickness and fluidity - and super conductivity – conduction of electricity without any resistance).

## Carbon Dating

Carbon - 14, an isotope of Carbon (normal weight 12 atomic units) is relatively unstable and decays radioactively. As it takes 5,730 years to decay to Nitrogen – 14 by cross correlating the length of time it takes for half the atoms to decay by emitting a beta particle is a slow reaction used to check the age of an item, known as dating, and used for dating archaeological artefacts, such as wood or charcoal over a period of years.

## Colour Temperature

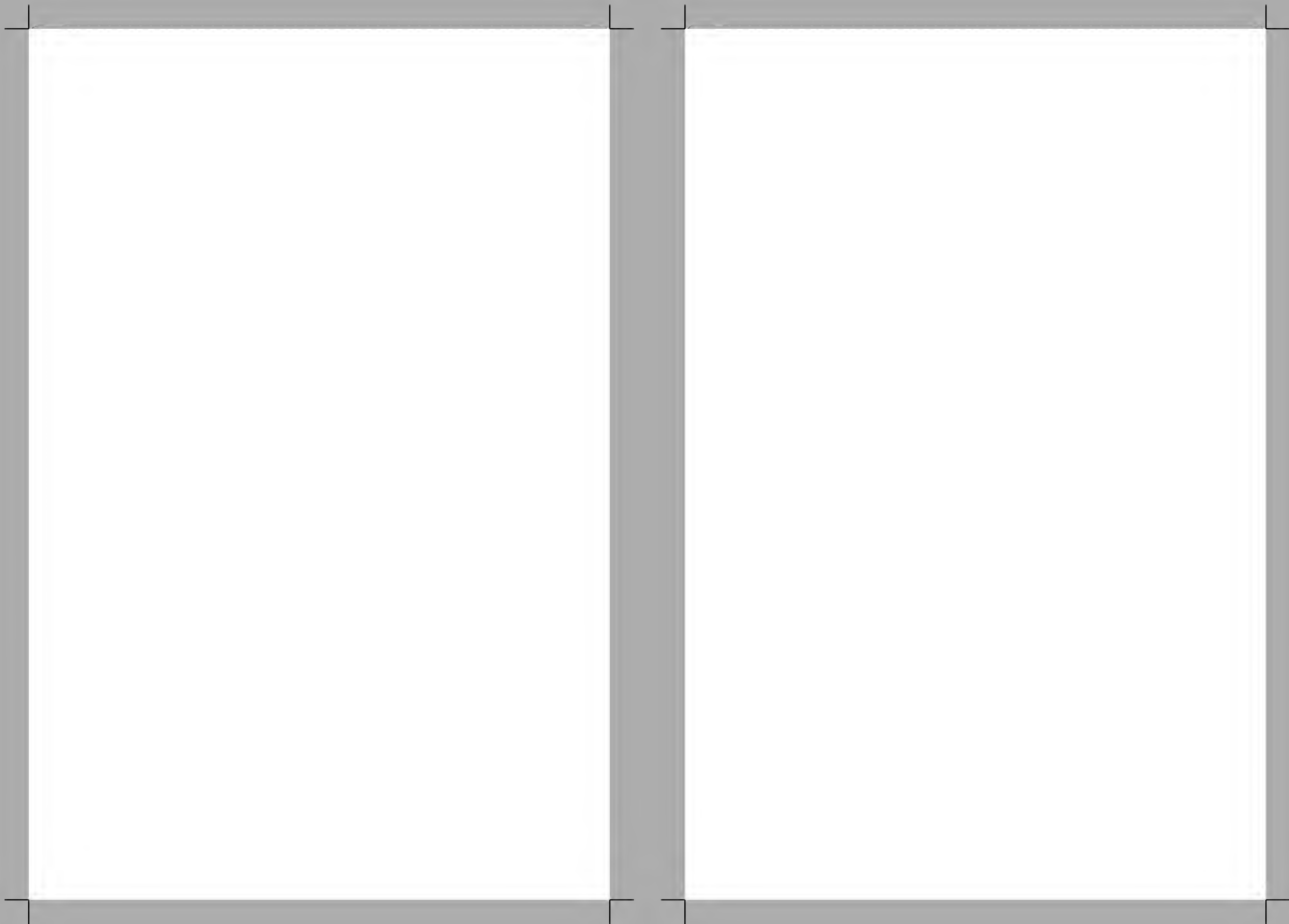
The colour of a star gives away its temperature, with the sun being a yellow colour due to the 6,000 degrees Kelvin (K). As they reduce in temperature they glow red (e.g. the star Betelgeuse, which lies in the Orion constellation and has a surface temperature of around 3,000 K) and as they increase in temperature they glow blue and eventually white with temperatures reaching 30,000 K (such as Sirius).

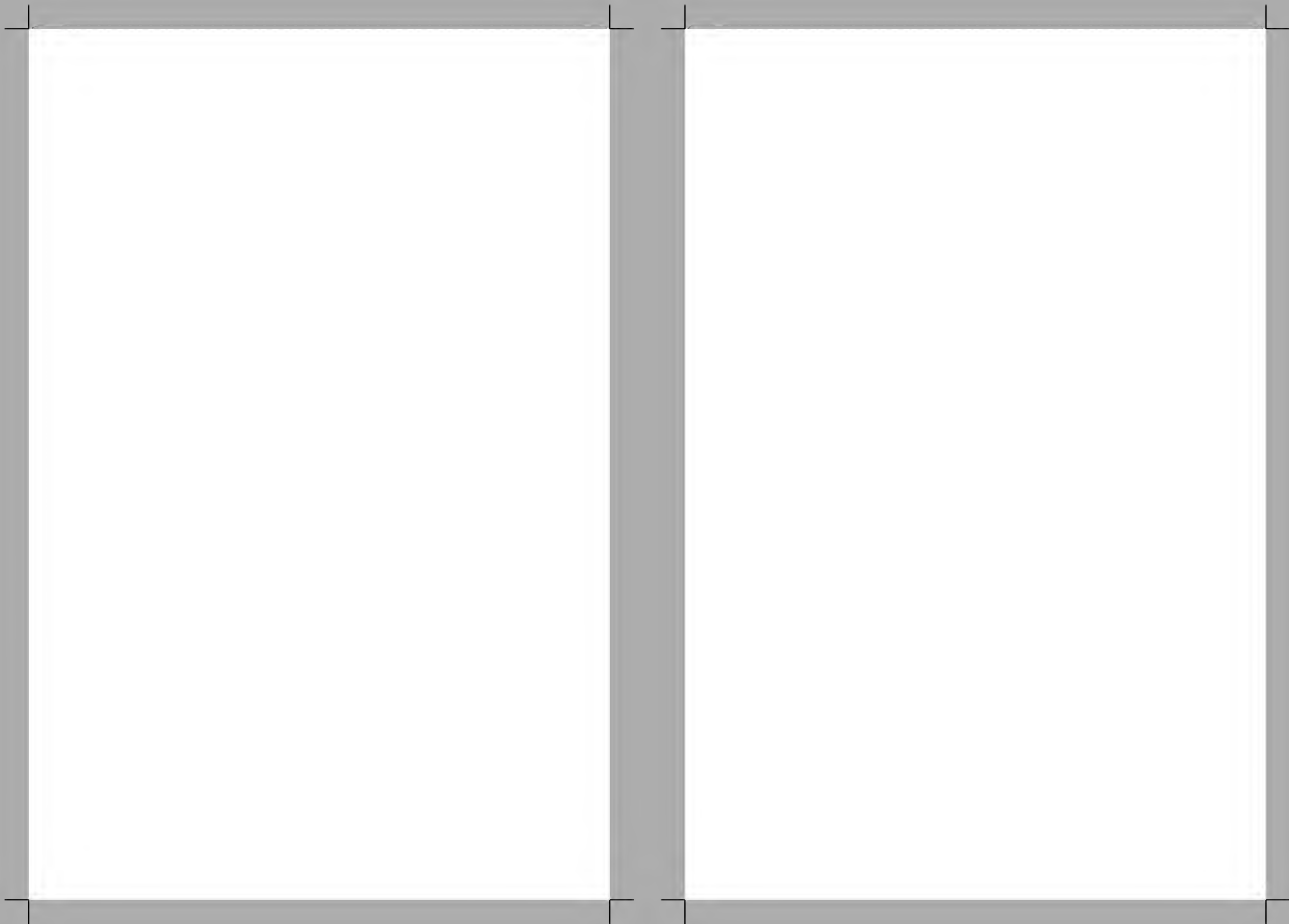
## Correspondence Principle

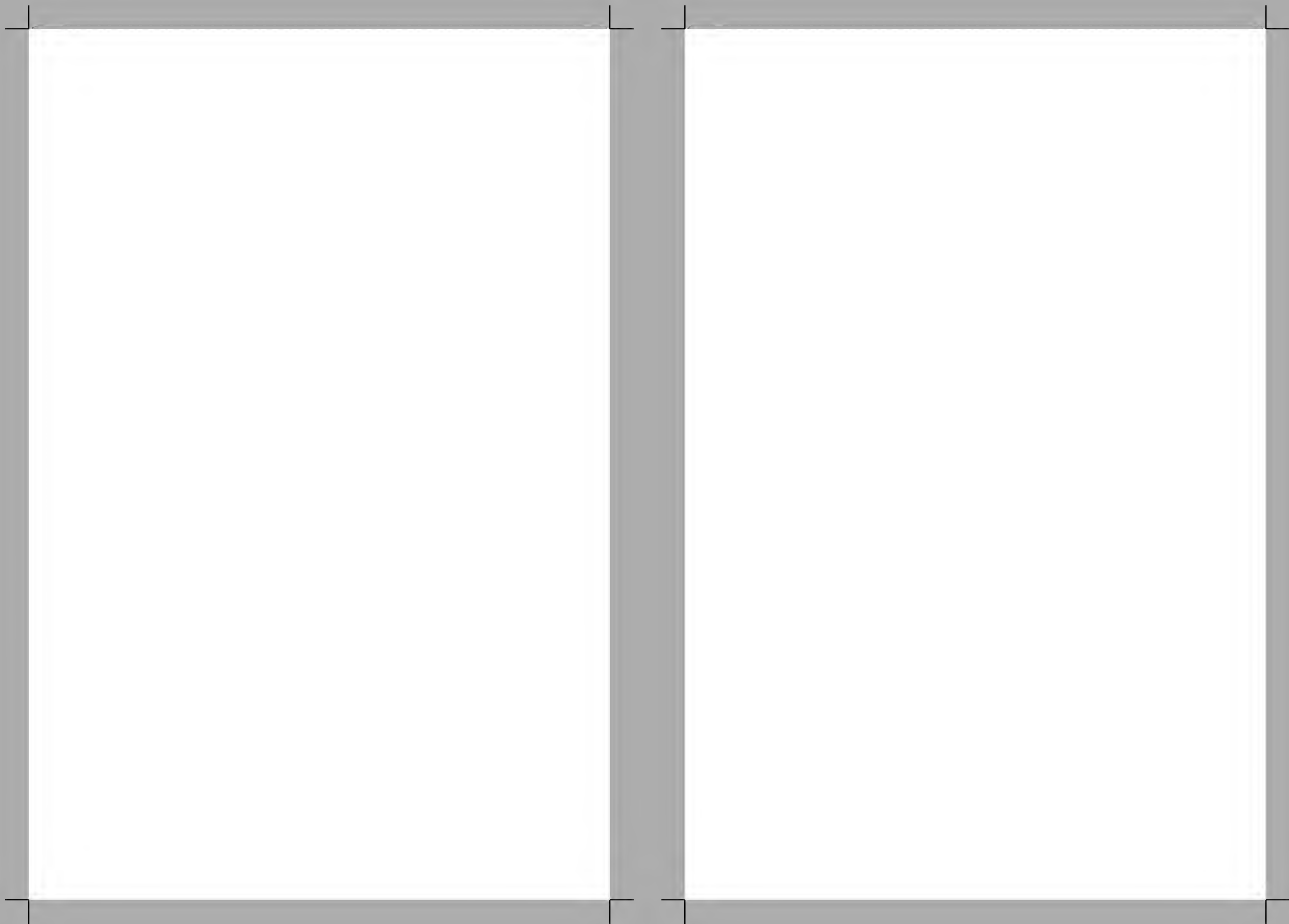
Niels Bohr introduced the principle known as the Correspondence Principle in which quantum behaviour (interactions between different particles and sub-atomic particles on a very small scale or unit – known as quanta) dissipates or disappears with larger systems of particle conglomeration (e.g. on a human scale or even larger, planetary or galactic) than we are able to experience with complete familiarity.

## Deep structure

A technique used to find the structure of certain materials using X-ray crystallography. Used by biologists and chemists widely and famously used to identify the structure of Deoxyribonucleic Acid or DNA, the double Helix structure of the building blocks of life, as discovered by Francis Crick and Jim Watson.







Proof